# BRUHAT BANGALORE MAHANAGARA PALIKE

## YELAHANKA ZONE

***Name of the work:*** **Estimate for Improvements to roads and drains at Kodigehalli village surroundings in ward no. 8, kodigehalli sub-division**

Estimate Cost: 4900000.00

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1321 Hire charges of 100 KVA generator including operator, fuel, transportation and handling charges PWD SR 2013-14, P. L, I. 92 for pumping of stagnated water in existisng drain | | | | | | | | |
| | Dewatering in drains of balaji layout | Hours | 3 | 12.00 | | | 36.00 | 495.00 | 17820.00 |
| | | | | | | | | | |
| 2 | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications. - RCC grade M20 and above (PWDSR 2014-15, I. 18.19, P. 133) | | | | | | | | |
| | existing culverts of balaji layout | Cum | 18 | 5.50 | 1.50 | 0.230 | 34.16 | | |
| | existing culverts of balaji layout | Cum | 19 | 6.00 | 1.50 | 0.230 | 39.33 | | |
| | | | | | | | 73.49 | 954.72 | 70158.00 |
| | Basic Rate | 884.00 | | | | | | | |
| | Area Weightage @8% | 70.72 | | | | | | | |
| | Total | 954.72 | | | | | | | |
| | | | | | | | | | |
| 3 | Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T & P and scaffolding wherever necessary, sorting the dismantled material, disposal of unservicea ble material and stacking the serviceable material with all lifts complete as per specifications.- Rubble stone masonry in cement mortar (PWDSR 2014-15, I. 18.27, P. 134) | | | | | | | | |
| | existing culverts of balaji layout | cum | 36 | 5.50 | 0.45 | 0.80 | 71.28 | | |
| | existing culverts of balaji layout | cum | 38 | 6.00 | 0.45 | 0.80 | 82.08 | | |
| | | | | | | | 153.36 | 993.60 | 152378.00 |
| | Basic Rate | 920.00 | | | | | | | |
| | Area Weightage @8% | 73.60 | | | | | | | |
| | Total | 993.60 | | | | | | | |
| | | | | | | | | | |
| 4 | KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. Page No. 138 / Item No. 19.1/ PWD SR 2014-15 | | | | | | | | |
| | Culvert desilting | | | | | | | | |
| | culverts - balaji layout cross roads | Cum | 18 | 5.50 | 0.60 | 0.50 | 29.70 | | |
| | culverts - balaji layout cross roads | Cum | 19 | 6.00 | 0.60 | 0.50 | 34.20 | | |
| | for road formation in kodigehalli | | | | | | | | |
| | graveyard road | Cum | 1 | 135.00 | 6.00 | 0.25 | 202.50 | | |
| | Government school road adjacent | Cum | 1 | 20.00 | 4.00 | 0.25 | 20.00 | | |
| | Near Government school road | Cum | 1 | 60.00 | 3.70 | 0.25 | 55.50 | | |
| | Cross road - Ganga bhavani colony | Cum | 3 | 16.00 | 3.00 | 0.25 | 36.00 | | |
| | Adjacent Anganwadi center | Cum | 1 | 50.00 | 4.00 | 0.25 | 50.00 | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Dasappa badavane cross roads | Cum | 2 | 49.00 | 4.00 | 0.25 | 98.00 | | |
| | drain in graveyard road | Cum | 2 | 135.00 | 0.60 | 0.60 | 97.20 | | |
| | | | | | | | 623.10 | 75.60 | 47106.00 |
| | Basic Rate | 70.00 | | | | | | | |
| | Area Weightage @8% | 5.60 | | | | | | | |
| | Total | 75.60 | | | | | | | |
| | | | | | | | | | |
| 5 | KSRRB M300-53. Construction of embankment with approved material deposited at site from roadway cutting and excavation from drain and foundation of other structures graded and compacted to meet requirement of Table 300-2 complete as per specifications which includes watering charges and compaction. (Page 144, Item No. 19.60 SR 2014-15) | | | | | | | | |
| | culverts - balaji layout cross roads | cum | 18 | 5.50 | 1.50 | 0.30 | 44.55 | | |
| | culverts - balaji layout cross roads | cum | 19 | 6.00 | 1.50 | 0.30 | 51.30 | | |
| | | | | | | | 95.85 | 166.32 | 15942.00 |
| | Basic Rate | 154.00 | | | | | | | |
| | Area Weightage @ 8% | 12.32 | | | | | | | |
| | Total | 166.32 | | | | | | | |
| | | | | | | | | | |
| 6 | KSRB 4-1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. No. 12/ Item No. 4.3/ PWD SR 2014-15 | | | | | | | | |
| | for culverts | | | | | Av. | | | |
| | culverts - balaji layout cross roads | Cum | 18 | 5.50 | 1.50 | 0.15 | 22.28 | | |
| | culverts - balaji layout cross roads | Cum | 19 | 6.00 | 1.50 | 0.15 | 25.65 | | |
| | for road formation in kodigehalli | | | | | | | | |
| | graveyard road | Cum | 1 | 135.00 | 6.00 | 0.15 | 121.50 | | |
| | Government school road adjacent | Cum | 1 | 20.00 | 4.00 | 0.15 | 12.00 | | |
| | Near Government school road | Cum | 1 | 60.00 | 3.70 | 0.15 | 33.30 | | |
| | Cross road - Ganga bhavani colony | Cum | 3 | 16.00 | 3.00 | 0.15 | 21.60 | | |
| | Adjacent Anganwadi center | Cum | 1 | 50.00 | 4.00 | 0.15 | 30.00 | | |
| | Dasappa badavane cross roads | Cum | 2 | 49.00 | 4.00 | 0.15 | 58.80 | | |
| | | | | | | | 325.13 | 4847.04 | 1575894.00 |
| | Basic Rate | 4488.00 | | | | | | | |
| | Area Weightage @8% | 359.04 | | | | | | | |
| | Total | 4847.04 | | | | | | | |
| | | | | | | | | | |
| 7 | KSRB 5.4-3: Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 23 / Item No. 5.12 / PWD SR 2014-15 | | | | | | | | |
| | culverts - balaji layout cross roads | Cum | 36 | 5.50 | 0.45 | 0.80 | 71.28 | | |
| | culverts - balaji layout cross roads | Cum | 38 | 6.00 | 0.45 | 0.80 | 82.08 | | |
| | | | | | | | 153.36 | | |
| A | With Available stones | | | | | | | | |
| | 70% of qty vide item No. 2 | cum | | | | | 107.35 | 3585.60 | 384914.00 |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | Basic Rate | 4420.00 | | | | | | | |
| | Deduct cost of available stones 100*10/each | 1000.00 | | | | | | | |
| | Deduct 10% overhead charges (1000*10%) | 100.00 | | | | | | | |
| | Net rate | 3320.00 | | | | | | | |
| | Area Weightage @ 8% | 265.60 | | | | | | | |
| | Total | 3585.60 | | | | | | | |
| | | | | | | | | | |
| B | With New stones | | | | | | | | |
| | balance quantity | cum | | | | | 46.01 | 4773.60 | 219633.00 |
| | Basic Rate | 4420.00 | | | | | | | |
| | Area Weightage @8% | 353.60 | | | | | | | |
| | Total | 4773.60 | | | | | | | |
| | | | | | | | | | |
| 8 | KSRB 15.1.4: Providing ruled pointing to coursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications cement mortar 1:4. Page No. 109 / Item No. 15.4 / PWD SR 2014-15 | | | | | | | | |
| | culverts - balaji layout cross roads | Sqm | 36 | 5.50 | | 0.80 | 158.40 | | |
| | culverts - balaji layout cross roads | Sqm | 38 | 6.00 | | 0.80 | 182.40 | | |
| | | | | | | | 340.80 | 92.88 | 31654.00 |
| | Basic Rate | 86.00 | | | | | | | |
| | Area Weightage @ 8% | 6.88 | | | | | | | |
| | Total | 92.88 | | | | | | | |
| | | | | | | | | | |
| 9 | KSRB 4-1.6 : Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. No. 12/ Item No. 4.6/ PWD SR 2014-15 | | | | | | | | |
| | coping | Cum | 36 | 5.50 | 0.45 | 0.10 | 8.91 | | |
| | | Cum | 38 | 6.00 | 0.45 | 0.10 | 10.26 | | |
| | Ramp | Cum | 36 | 5.50 | 0.60 | 0.12 | 0.79 | | |
| | | Cum | 38 | 6.00 | 0.60 | 0.12 | 0.86 | | |
| | | | | | | | 20.83 | 5327.64 | 110953.00 |
| | Basic Rate | 4933.00 | | | | | | | |
| | Area Weightage @ 8% | 394.64 | | | | | | | |
| | Total | 5327.64 | | | | | | | |
| | | | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 10 | KSRB 4.2.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, No. 13/ Item No. 4.11/ PWD SR 2014-15 | | | | | | | | |
| | deck slab | cum | 18 | 5.50 | 1.50 | 0.225 | 33.41 | | |
| | deck slab | cum | 19 | 6.00 | 1.50 | 0.225 | 38.47 | | |
| | | | | | | | 71.88 | 6065.28 | 435972.00 |
| | Basic Rate | 5616.00 | | | | | | | |
| | Area Weightage @ 8% | 449.28 | | | | | | | |
| | Total | 6065.28 | | | | | | | |
| | | | | | | | | | |
| 11 | KSRB 4.9.1: Providing TMT steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3 Page No. 17 / Item No. 4.46.3 / PWD SR 2014-15 | | | | | | | | |
| | For slab @ 70 Kg / Cum | Tonne | 0.70 | 71.88 | | | 5.03 | 79056.00 | 397778.00 |
| | Basic Rate | 73200.00 | | | | | | | |
| | Area Weightage @ 8% | 5856.00 | | | | | | | |
| | Total | 79056.00 | | | | | | | |
| | | | | | | | | | |
| 12 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31/ PWD SR 2014-15 | | | | | | | | |
| | Beneath slab | Sqm | 18 | 5.50 | 0.60 | | 59.40 | | |
| | | Sqm | 19 | 6.00 | 0.60 | | 68.40 | | |
| | sides of slab | Sqm | 36 | 5.50 | | 0.225 | 44.55 | | |
| | | Sqm | 38 | 6.00 | | 0.225 | 51.30 | | |
| | | Sqm | 36 | 1.50 | | 0.225 | 12.15 | | |
| | | Sqm | 38 | 1.50 | | 0.225 | 12.82 | | |
| | | | | | | | 248.62 | 292.68 | 72766.00 |
| | Basic Rate | 271.00 | | | | | | | |
| | Area Weightage @ 8% | 21.68 | | | | | | | |
| | Total | 292.68 | | | | | | | |
| | | | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 13 | KSRB- 4-1.5 : Providing and laying in position plain cement concrete of mix M20 with OPC cement @ 300 kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregares @ 0.43 cum with superplastisiser @ 3lts confirming to IS9103-1999 reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2, No. 12/ Item No. 4.5/ PWD SR 2014-15 | | | | | | | | |
| | graveyard road | Cum | 1 | 135.00 | 6.00 | 0.10 | 81.00 | | |
| | Government school road adjacent | Cum | 1 | 20.00 | 4.00 | 0.10 | 8.00 | | |
| | Near Government school road | Cum | 1 | 60.00 | 3.70 | 0.10 | 22.20 | | |
| | Cross road - Ganga bhavani colony | Cum | 3 | 16.00 | 3.00 | 0.10 | 14.40 | | |
| | Adjacent Anganwadi center | Cum | 1 | 50.00 | 4.00 | 0.10 | 20.00 | | |
| | Dasappa badavane cross roads | Cum | 2 | 49.00 | 4.00 | 0.10 | 39.20 | | |
| | | Cum | | | | | 184.80 | 5852.52 | 1081546.00 |
| | Basic Rate | 5419.00 | | | | | | | |
| | Area Weightage @8% | 433.52 | | | | | | | |
| | Total | 5852.52 | | | | | | | |
| | | | | | | | | | |
| 14 | Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. 171 / Item No. 22.7 / PWD SR 2014-15 | | | | | | | | |
| | graveyard road | Sqm | 1 | 135.00 | 6.00 | | 810.00 | | |
| | Government school road adjacent | Sqm | 1 | 20.00 | 4.00 | | 80.00 | | |
| | Near Government school road | Sqm | 1 | 60.00 | 3.70 | | 222.00 | | |
| | Cross road - Ganga bhavani colony | Sqm | 3 | 16.00 | 3.00 | | 144.00 | | |
| | Adjacent Anganwadi center | Sqm | 1 | 50.00 | 4.00 | | 200.00 | | |
| | Dasappa badavane cross roads | Sqm | 2 | 49.00 | 4.00 | | 392.00 | | |
| | | Sqm | | | | | 1848.00 | 97.20 | 179626.00 |
| | Basic Rate | 90.00 | | | | | | | |
| | Area Weightage @8% | 7.20 | | | | | | | |
| | Total | 97.20 | | | | | | | |
| | | | | | | | | | |
| 15 | Providing groove cutting for cement pavement wifth of 5mm to 10mm and depth 800mm-100mm including cost of cutting machine, generator and HOM of machinery, including cost of blade, coolant etc, including cleaning of groove and providing sand and hot bitumen fillarsm and filler metal etc including of conveyance of all materials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications Page No. 172 / Item No. 22.8 / PWD SR 2014-15 | | | | | | | | |
| | graveyard road | Rmt | 7 | 6.00 | | | 42.00 | | |
| | Government school road adjacent | Rmt | 1 | 4.00 | | | 4.00 | | |
| | Near Government school road | Rmt | 3 | 3.70 | | | 11.10 | | |
| | Cross road - Ganga bhavani colony | Rmt | 1 | 3.00 | | | 3.00 | | |
| | Adjacent Anganwadi center | Rmt | 3 | 4.00 | | | 12.00 | | |
| | Dasappa badavane cross roads | Rmt | 3 | 4.00 | | | 12.00 | | |
| | | Rmt | | | | | 84.10 | 124.20 | 10445.00 |
| | Basic Rate | 115.00 | | | | | | | |
| | Area Weightage @8% | 9.20 | | | | | | | |
| | Total | 124.20 | | | | | | | |
| | | | | | | | | | |

| Sl. No | Description | Unit | No. | L | B | D | Qty | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| 16 | Lead for Disposal of Debris shall be payable at carriage rates by Mechanical means inlcuding loading and unloading. From 0.00 to 2.00 Km ( Page No.123) | | | | | | | | |
| | | | Vide Item No. (4*0.8+2) | | | | 571.97 | 73.57 | 42079.00 |
| | Average weight of earth 1.28 tonne / kg for 2x1.28x2.00=5.12 | 5.12 | | | | | | | |
| | Add loading and unloading charges Vide item no.17.1 P.no.130 | 63.00 | | | | | | | |
| | | 68.12 | | | | | | | |
| | Area Weightage @ 8% | 5.45 | | | | | | | |
| | Total | 73.57 | | | | | | | |
| | | | | | | | | | |
| 17 | Sub Total | | | | | | | | 4846664.00 |
| | | | | | | | | | |
| 18 | For Third Part QC inspection Charges @ 1% of Estimate Cost | | | | | | | | 48467.00 |
| | | | | | | | | | |
| 19 | Miscellaneous and other Charges | L/S | | | | | | | 4869.00 |
| | | | | | | | | | |
| | | | | | | | | Total | 4900000.00 |
| | **(Rs. Forty Nine Lakhs Only)** | | | | | | | | |

**CERTIFICATE:**

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2014-15.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 8

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP

Executive Engineer
Byatarayanapura Division
BBMP

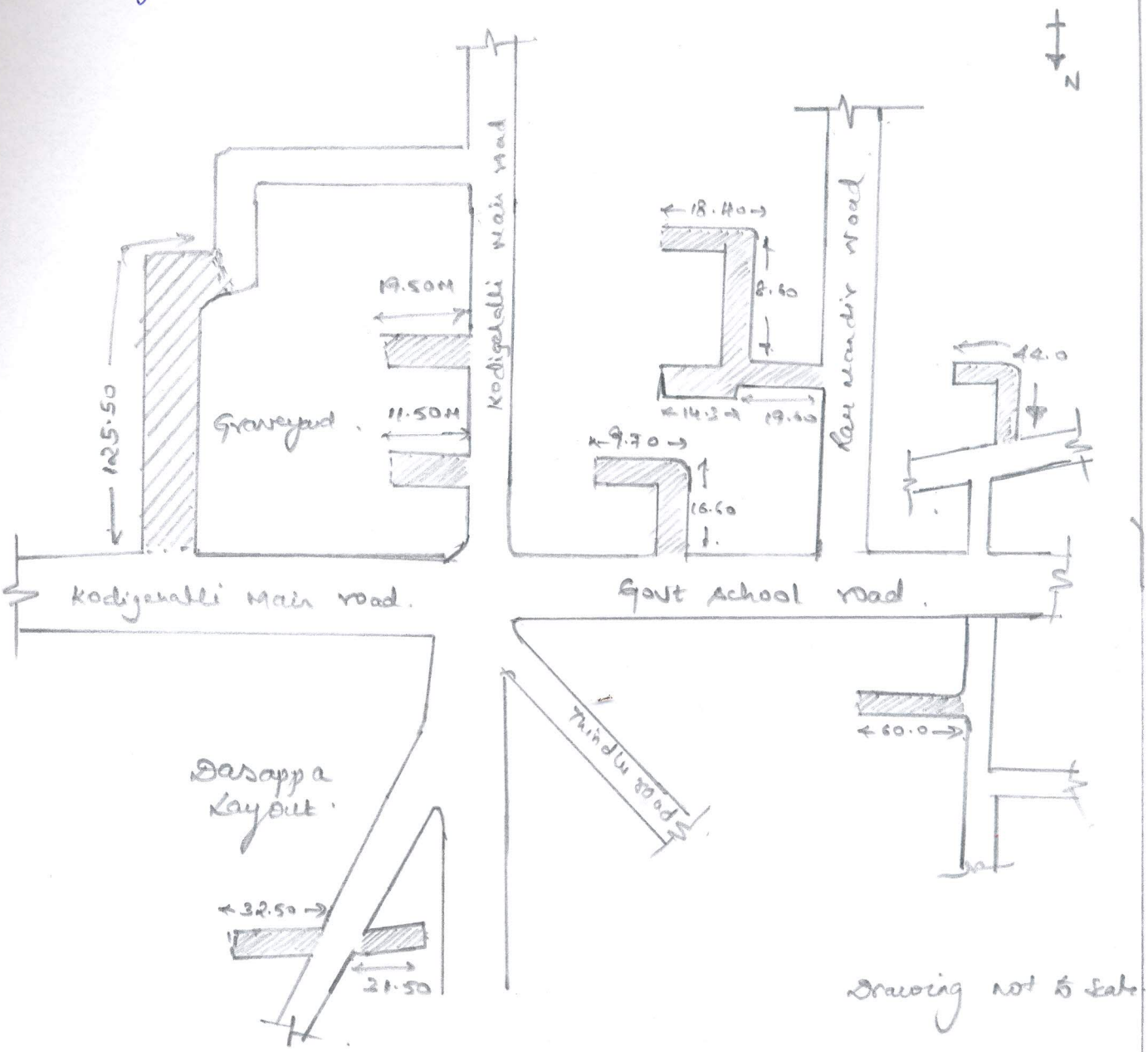
ADMINISTRATIVELY SANCTIONED FOR Rs 49.00 lakhs
Rupees Forty Nine lakhs ALL
Under P-3089
Registered as EE ( ) No 9....9....
Subject to conditions contained in enclosed memo EE ( ) No /9/...
Dt Estimate A/Sanctioned
JC(Yln)/AS/25 No 2015-16
dated 20/8/2015 Rs 49.00 lakh.

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

Technical Sanction
Accorded For 49.00 lakh Rs.
Head of A/C P.3089
CER NO 40 Dt: 21.8.15

TA — CE (YNK)

Name of work: Improvements to roads & drains at Kodigehalli village surroundings in ward No. 8, Kodigehalli.




Drawing not to scale.

Location sketch -